WHAT IS CLAIMED IS:

- A surgical instrument comprising:
- a motor assembly;
- a collet assembly connected to the motor assembly and including a body portion with a plurality of engaging members;
- a dissection tool including a tool body with a hub positioned in an opening formed within the tool body, the hub including a plurality of indentions configured to selectively engage with the engaging members.
 - 2. The surgical instrument of claim 1 further comprising:
- a housing for encasing the motor and the collet assembly, wherein the collet assembly is capable of rotational movement inside the housing.
- 3. The surgical instrument of claim 1 wherein the dissection tool is a relatively flat reciprocating saw blade.
- 4. The surgical instrument of claim 1 wherein the motor is electrically powered.
- 5. The surgical instrument of claim 4 wherein the electric motor is used to turn a spindle, which further rotates an eccentric flywheel, which further provides an oscillating motion to the collet assembly.

- 6. The surgical instrument of claim 5 wherein the collet assembly includes a drive member for attaching to a shaft connected to the flywheel.
- 7. The surgical instrument of claim 1 wherein the hub includes a complete, circular aperture for receiving a portion of the collet assembly.
- 8. The surgical instrument of claim 7 wherein the opening in the tool body is non-circular.
- 9. The surgical instrument of claim 7 wherein a portion of the tool body extends all the way around the opening.
- 10. The surgical instrument of claim 1 wherein the collet assembly includes a plunger in contact with a compression device.
- 11. The surgical instrument of claim 10 wherein the compression device is a coil spring, the coil spring configured for positioning the plunger in a first state to urge the engaging members into corresponding indentions in the hub and for positioning the plunger in a second state whereby the engaging members are readily separable from their corresponding indentions.
- 12. The surgical instrument of claim 1 wherein the engaging members are balls.

- 13. The surgical instrument of claim 1 wherein at least one of the indentions includes two sub-indentions and a protrusion therebetween so that when the engaging members are engaged with the indentions, the hub is locked in place and frictionally engaged with the collet assembly.
- 14. The surgical instrument of claim 1 wherein the tool body and hub are both made of metal and are joined together by weld, epoxy, or mechanical force.
- 15. The surgical instrument of claim 1 wherein the tool body and hub are a single monolithic structure.
- 16. A bone saw blade for use with a powered surgical instrument having a collet assembly, the bone saw blade comprising:
 - a flat extending member;
 - a cutting surface disposed on the flat extending member;
- a hub disposed on the flat extending member, the hub forming a surrounded opening having a plurality of engagement locations for selectively engaging with corresponding engagement members on the collet assembly.
- 17. The bone saw blade of claim 16 wherein the surrounded opening is circular in shape.
- 18. The bone saw blade of claim 16 wherein the engagement locations are indentions for selectively receiving protrusion from the collet assembly.

- 19. The bone saw blade of claim 16 wherein a portion of the flat extending member extends completely around the opening.
- 20. The bone saw blade of claim 16 wherein at least one of the engagement locations includes two sub-indentions and a protrusion therebetween so that when one of the engagement members is engaged with the indentions, the hub is locked in place and frictionally engaged with the collet assembly.
- 21. The bone saw blade of claim 16 wherein the tool body and hub are both made of metal and are joined together by weld, epoxy, or mechanical force.
- 22. The bone saw blade of claim 16 wherein the tool body and hub are a single monolithic structure.

- 23. A coupling assembly for use with a motor in a powered surgical instrument and for selectively attaching a dissection tool to the surgical instrument, the coupling assembly comprising:
- a translation member connectable to the motor for receiving a first movement force from the motor and translating it to a second movement suitable for driving the dissection tool;
 - a body portion connected to the translation member;
 - a plurality of engagement members;
- a selectively engageable plunger configured to move into a first position to move the engagement members to engage with the dissection tool to secure the dissection tool to the collet, and a second position to allow the dissection tool to be separated from the collet.
- 24. The coupling assembly of claim 23 wherein the plunger and engagement members are configured to be positioned inside an opening of the dissection tool.
- 25. The coupling assembly of claim 23 wherein the engagement members are spherical shaped and are positioned in equal spaces around the plunger.
 - 26. The coupling assembly of claim 23 further comprising:
- a compression device for urging the plunger towards the second position.

- 27. The coupling assembly of claim 26 further comprising:
- a post engaged with the compression device; and
- a ball bearing assembly to support the second movement for driving the dissection tool.
- 28. The coupling assembly of claim 27 wherein the dissection tool is a bone saw.